



FAA Approved Facility

Iridium & Globalstar Antenna: (5.03"x2.08"x0.69"), Flat or Pipe mount, P/N: 5G161625RLL-A1-XSSS-XF1

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

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MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in. [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]

WEIGHT: 8.0 oz. (226 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: Tx (Red): SMA F., Rx (Blue): SMA F., IRIDIUM: SMA F. (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

SPECIFICATIONS

| | REVISIONS | | | | |
|--|----------------------------|--|---------------------------------|---------------|-----------|
| | ZONE | REV | DESCRIPTION | DATE | APPROVED |
| ELECTRICAL: | | | | | |
| TX GLOBALSTAR (1610 - 1625) MHz | | | RX GLOBALSTAR (2484 - 2499) MHz | | |
| | | | IRIDIUM (1610.0 - 1626.5) MHz | | |
| FREQUENCY: | | | | | |
| RADIATION PATTERN: | HEMISPHERICAL | | | HEMISPHERICAL | |
| POLARIZATION: | LHCP | | | RHCP | |
| VSWR: | < 2.0:1 | | | < 1.5:1 | |
| GAIN (dB): | F.S. | 4 ft G.P. | F.S. | 4 ft G.P. | 4 ft G.P. |
| @ 90° (Zenith): | +4.9 | +4.2 | +3.7 | +1.8 | +4.9 |
| @ 10° Elevation (Ave): | -2.4 | -1.3 | -3.2 | -1.8 | -1.0 |
| @ 20° Elevation (Ave): | -0.8 | +1.4 | -1.6 | +0.9 | +1.5 |
| @ 30° Elevation (Ave): | +0.8 | +2.3 | -0.2 | +0.2 | +2.4 |
| @ 45° Elevation (Ave): | +2.8 | +2.2 | +1.3 | +0.6 | >+3.3 |
| @ 70° Elevation (Ave): | +4.6 | +3.5 | +3.2 | +0.6 | >+2.7 |
| AXIAL RATIO @ Zenith: | 2 dB | | 2 dB | | 2 dB |
| POWER HANDLING: | >5 W | | 1 Watt | | |
| DC GROUNDING: | YES (LIGHTNING PROTECTION) | | | | |
| FILTER (REJ. @1616 MHz): | 57 dB | | | | |
| REJECTION @ (-50/+50) MHz @ (-100/+100) MHz: | | | | | |
| LNA GAIN: | N/A | (35 +/- 1) dB | | | |
| LNA NOISE FIGURE: | N/A | 2.8 dB | | | |
| LNA VOLTAGE: | N/A | (+2.5 to +30) Volts DC FROM Rx RF CON. | | | |
| LNA DRAWING CURRENT: | N/A | < 38 mA | | | |

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| QTY | DESCRIPTION | PART NO | MATERIAL | FINISH | REF |
|-----|-----------------------------|--------------|----------|--------|-----|
| 4 | MOUNTING SCREW: (10-32, 1") | MS24693C276 | - | - | 5 |
| 1 | ADHESIVE GASKET | 123456-3M-4G | - | - | 3 |
| 1 | O-RING | 2-038 | - | - | 1 |

UNLESS OTHERWISE SPECIFIED:

FRACTIONS TO BE IN DECIMALS AND ANGLES TO BE IN DEGREES

TOLERANCE 3/16 PER ASH 174.0

REMOVE ALL BURRS

BRICK LITERAL TOES TO .015

FLATS TO .002 TO .010

SPRUE BREAKS TO .010 TO .015

DATE OF A DRAWING

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

FLAT FIXED MOUNT GLOBALSTAR/IRIDIUM ANTENNA

DATE: DEC-13-02

DESIGNED BY: S. HUYNH

DRAWN BY: S. HUYNH

CHECKED BY: S. HUYNH

APPROVED BY: S. HUYNH

DATE: DEC-13-02

PART NO: 5G161625RLL-A1-XSSS-XF1

SCALE: 1/1

SHEET: 1 OF 1

P/N: 5G151625RLL-A1-XSSS-1F1

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

NMO Connector is Now Available for Some Antennas